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| Model Number 378A07 | ICP INFRASOUND MICROPHONE SYSTEM | Revision: E ECN #: 49377 |
|-------------------------------|---|-----------------------------|

| | <u>ENGLISH</u> | <u>SI</u> | |
|--|--------------------|--------------------|--------|
| Performance | | | |
| Nominal Microphone Diameter | 1/2" | 1/2" | |
| Frequency Response Characteristic(at 0° incidence) | Free-Field | Free-Field | |
| Sensitivity | 5.8 mV/Pa | 5.8 mV/Pa | [3] |
| Sensitivity(± 1.5 dB) | -44.7 dB re 1 V/Pa | -44.7 dB re 1 V/Pa | [3] |
| Frequency Range(± 2 dB) | 0.13 to 20,000 Hz | 0.13 to 20,000 Hz | |
| Frequency Range(± 1 dB) | 0.25 to 10,000 Hz | 0.25 to 10,000 Hz | |
| Lower Limiting Frequency(-3 dB) | <0.1 Hz | <0.1 Hz | |
| Inherent Noise | 20 dB(A) re 20 μPa | 20 dB(A) re 20 μPa | [2] |
| Dynamic Range(3% Distortion Limit) | 136 dB re 20 μPa | 136 dB re 20 μPa | [2] |
| TEDS Compliant | Yes | Yes | [4] |
| Environmental | | | |
| Temperature Range(Operating) | -40 to +176 °F | -40 to +80 °C | |
| Temperature Coefficient of Sensitivity(+14 to +158°F (-10 to +70°C)) | 0.005 dB/°F | 0.009 dB/°C | [2][3] |
| Static Pressure Coefficient | -0.01 dB/kPa | -0.01 dB/kPa | [2][3] |
| Humidity Coefficient of Sensitivity(0 to 100%, non-condensing) | ± 0.001 dB/%RH | ± 0.001 dB/%RH | [3] |
| Influence of Axial Vibration(0.1g (1 m/s ²)) | 63 dB re 20 μPa | 63 dB re 20 μPa | [2] |
| Electrical | | | |
| Polarization Voltage | 0 V | 0 V | [1] |
| Excitation Voltage | 20 to 30 VDC | 20 to 30 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Bias Voltage | 10 to 14 VDC | 10 to 14 VDC | |
| Maximum Output Voltage | ± 7 Vpk | ± 7 Vpk | |
| Output Impedance | <50 Ohm | <50 Ohm | |
| Physical | | | |
| Housing Material | Stainless Alloy | Stainless Alloy | |
| Venting | Rear | Rear | |
| Electrical Connector | BNC Jack | BNC Jack | |
| Mounting Thread(Grid) | 0.5 - 60 UNS | 0.5 - 60 UNS | |
| Size (Diameter x Height)(with grid) | 0.52 in x 4.29 in | 13.2 mm x 109.0 mm | |
| Size (Diameter x Height)(without grid) | 0.50 in x 4.25 in | 12.7 mm x 108.0 mm | |
| Weight | 1.93 oz | 54.8 gm | [2] |

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

[1] Prepolarized
 [2] Typical.
 [3] re 250 Hz
 [4] TEDS Capable Digital Memory and Communication, compliant with IEEE 1451.4
 [5] See PCB Declaration of Conformance PS064 for details.

SUPPLIED ACCESSORIES:

Model 079A43 Low-Frequency Adaptor (1)
 Model ACS-63 Calibration (with TEDS) of Precision Condenser Microphones and Preamplifiers together (mated pair). (1)

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|----------------|----------------|----------------|----------------|--------------|
| Entered: LK | Engineer: MJN | Sales: MV | Approved: NJF | Spec Number: |
| Date: 4/9/2019 | Date: 4/9/2019 | Date: 4/9/2019 | Date: 4/9/2019 | 59960 |



All specifications are at room temperature unless otherwise specified.
 In the interest of constant product improvement, we reserve the right to change specifications without notice.
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